

Subscriber Networks

## DNCS V880 Platform

### Description

The Digital Network Control System (DNCS) V880 platform features hot-swappable disks, power supplies, and cooling fan trays. All PCI slots comply with PCI Local Bus Specification Revision 2.1 and support PCI hot-plug operations. This high level of reliability is further enhanced by the addition of redundant FC-AL disk controllers.

An easy-to-use front panel display provides general system status, alerts you to system problems, and helps you determine the location of system faults.

Two hardware configurations of the DNCS V880 platform are available to match your broadband requirements:

- **DNCS V880-2**, featuring two, 900-MHz CPUs; 4-GB RAM total; and a total of six, 73-GB disks
- **DNCS V880-4**, featuring four, 900-MHz CPUs; 8-GB RAM total; and a total of twelve, 73-GB disks

The DNCS V880 platform requires System Release (SR) 2.1.1 or SR 3.0.1 or later. In addition, the DNCS V880 platform requires the DBDS IP traffic to be routed separately from the ATM traffic. This setup may require some existing sites to reconfigure their DBDS/DNCS network to route out-of-band IP traffic through 10/100BaseT Ethernet or Gigabit Ethernet.

### Specifications

| Electrical                   |                                       |
|------------------------------|---------------------------------------|
| Input                        |                                       |
| Nominal Frequencies          | 50 Hz or 60 Hz nominal                |
| Nominal Voltage Range        | Autoranging 100–240 VAC               |
| Maximum Current AC RMS       | 15.0 A @ 100 VAC (each power cord)    |
| AC Operating Range           | 90–264 Vrms, 47–63 Hz                 |
| Output                       |                                       |
| +3.3 VDC                     | 3 to 72 A                             |
| +5 VDC                       | 3 to 56 A                             |
| +12 VDC                      | 1 to 35 A                             |
| +48 VDC                      | 0 to 31.2 A                           |
| Maximum DC Power Output      | 2240 Watts                            |
| Maximum AC Power Consumption | 3000 Watts                            |
| Maximum Heat Dissipation     | 10,308 BTU/hr                         |
| Volt-Ampere Rating           | 1515 VA with 1120 Watt load (PF=0.99) |

# DNCS V880 Platform

## Specifications, continued

| <b>Mechanical</b>   |   |
|---|---|
| Height (with casters)   | 28.1 in. (71.4 cm)  |
| Width   | 18.9 in. (48.0 cm)  |
| Depth   | 32.9 in. (83.6 cm)  |
| Weight (dependent on installed options)   | 194 lb (88 kg) minimum, 288 lb (131 kg) maximum   |
| Power Cord  | 8.2 ft (2.5 m)  |
| <b>Operating</b>  |   |
| Temperature   | 41–95°F (5–35°C)–IEC 68-2-1, 68-2-2   |
| Humidity  | 20–80% RH, non-condensing; 27°C max wet bulb–IEC 68-2-2, 68-2-3   |
| Altitude  | 0–10,000 ft (0–3000 m)–IEC 68-2-40, 68-2-41   |
| Vibration Deskside  | 0.0002 g <sup>2</sup> /Hz, 5-500 Hz (random)–IEC 68-2-6   |
| Vibration Rackmounted   | 0.00015 g <sup>2</sup> /Hz, 5-500 Hz (random)–IEC 68-2-6  |
| Shock Deskside  | 4 g peak, 11 ms half-sine pulse–IEC 68-2-27   |
| Shock Rackmounted   | 3 g peak, 11 ms half-sine pulse–IEC 68-2-27   |
| Declared Acoustics  | 6.7 bels dB (A) operating, 7.6 bels dB (A) at ok prompt   |
| <b>Non-Operating</b>  |   |
| Temperature   | -4–140°F (-20–60°C)–IEC 68-2-1, 68-2-2  |
| Humidity  | 95% RH, non-condensing at 40°C–IEC 68-2-2, 68-2-3   |
| Altitude  | 0–40,000 ft (0–12,000 m)–IEC 68-2-40, 68-2-41   |
| Vibration Deskside  | 0.002 g <sup>2</sup> /Hz, 5-500 Hz (random)–IEC 68-2-6  |
| Vibration Rackmounted   | 0.0015 g <sup>2</sup> /Hz, 5-500 Hz (random)–IEC 68-2-6   |
| Shock Deskside  | 15 g peak, 11 ms half-sine pulse–IEC 68-2-27e   |
| Shock Rackmounted   | 10 g peak, 11 ms half-sine pulse–IEC 68-2-27e   |
| Handling Drops  | 50 mm–IEC 68-2-31   |
| Threshold Impact  | 1 m/s–SUN 900-1813  |
| <b>Minimum Clearances for Proper Cooling</b>  |   |
| Front Blockage Only   | 3.0 in. (7.6 cm) required clearance   |
| Rear Blockage Only  | 3.5 in. (8.9 cm) required clearance   |
| Front and Rear Blockage:  |   |
| <ul style="list-style-type: none"> <li>• Front Clearance</li> <li>• Rear Clearance</li> </ul> | <ul style="list-style-type: none"> <li>• 3.5 in. (8.9 cm) required clearance</li> <li>• 4.0 in. (10.2 cm) required clearance</li> </ul> |
| <b>Minimum Clearances for Service Access</b>  |   |
| Front Deskside  | 36 in. (91 cm) required clearance   |
| Front Rackmounted   | 48 in. (122 cm) required clearance  |
| Rear  | 36 in. (91 cm) required clearance   |
| Right   | 36 in. (91 cm) required clearance   |
| Left  | 36 in. (91 cm) required clearance   |

# DNCS V880 Platform

## Specifications, continued

| Agency Compliance |   |
|-------------------|---|
| Safety            | EN60950/IEC950 TUV, UL 1950, CB Scheme IEC 950, C22.2 No. 950 from UL, EK from KTL  |
| RFI/EMI           | Australia/New Zealand AS/NZ 3548 Class A,<br>Industry Canada ICES-003 Class A,<br>European Community EN55022 Class A,<br>Japan VCCI Class A,<br>Taiwan CNS 13438 Class A,<br>US FCC 47CFR15.B Class |
| Immunity          | EN55024, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11   |

## Ordering Information

Contact your Sales Representative for product availability in your area.

| Description                                       | Available | Part Number |
|---|-----------|-------------|
| DNCS V880-2 Platform (hardware only)              | Now       | 4002038     |
| DNCS V880-2 Platform (with third-party software)* | Now       | 4002730     |
| DNCS V880-4 Platform (with 4, 900-MHz CPUs)       | Now       | 4002039     |
| DNCS V880-4 Platform (with third-party software)* | Now       | 4002728     |

\*SR 2.1.1 or SR 3.0.1 or later software must be ordered separately.



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